

19971106.ba v01_n761.bam.971106 v01_n762.bam.971106

>From ???@??? Fri Nov 07 04:48:58 1997
Message-Id: <199711061221.GAA01597@sco.theporch.com>
Date: Thu, 6 Nov 1997 06:21:05 CST
Subject: BOATANCHORS digest 1761

BOATANCHORS Digest 1761

Topics covered in this issue include:

- 1) tube sub question - 6K6
by Tom Norris <badger@telalink.net>
- 2) Heath AR1
by launerb@crl.com (William H. Launer)
- 3) Commercial Postings
by "Grumps Guide Press" <rau@wco.com>
- 4) Cleaning Old Rigs (Again!)
by "Ornitz, Barry L" <ornitz@eastman.com>
- 5) Balancing parallel tubes
by "Grumps Guide Press" <rau@wco.com>
- 6) SX-100 Bashing
by "Allan Fritsche" <fritsche@classic.msn.com>
- 7) Re: tube sub question - 6K6
by Sandy W5TVW <ebjr@worldnet.att.net>
- 8) Re: tube sub question - 6K6
by Bob Roehrig <broehrig@admin.aurora.edu>
- 9) Sputnik?
by Dick Dillman <ddillman@igc.apc.org>
- 10) Re: MW POLICE RADIO
by Dick Dillman <ddillman@igc.apc.org>
- 11) Tube sub help, thanks
by Tom Norris <badger@telalink.net>
- 12) Re: Cleaning Old Rigs (Again!)
by "Larry Johnson" <k5yf@wt.net>
- 13) Re: SX-100 Bashing
by Dan Arney <kn6di@groupone.net>
- 14) Grandpa's package
by bdhall@ghg.net (Benjamin D. Hall)
- 15) Re: R388 T-102/xtal filter alignment
by "al parker" <al_parker@kacc.com>
- 16) Re: tube sub question - 6K6
by Henry van Cleef <vancleef@netcom.com>
- 17) Re: QF-1
by "David L. Thompson" <thompson@mindspring.com>
- 18) URM 25-D Sig Gen
by Brian Bjerkelund <brianbj@compuserve.com>
- 19) Re: Heath QF-1 Query

by John Kolb <jlkolb@cts.com>
20) Re: Balancing parallel tubes
by KA9EGW@aol.com
21) Re: My turn
by Bob Roehrig <broehrig@admin.aurora.edu>
22) Re: The "Gibson Girl"
by Ho4bart@aol.com
23) Re: My turn
by Ho4bart@aol.com
24) Re: MW POLICE RADIO
by Ho4bart@aol.com
25) Re: MCLAUGHLIN RECEIVERS
by Ho4bart@aol.com
26) re: my turn
by Ho4bart@aol.com
27) BA Beginnings
by ARONGV@aol.com

Date: Wed, 05 Nov 1997 17:01:23 -0600
From: Tom Norris <badger@telalink.net>
To: boatanchors@theporch.com
Subject: tube sub question - 6K6
Message-ID: <3.0.3.32.19971105170123.008fc6c0@telalink.net>

Looking for subs for 6K6 -- 6F6 and 6L6 have
somewhat similar specs loadwise, but are either
"close enough" for a sub in the class A output of my RBL?

(finally ordered a set of tube sub books, but not arrived yet)

Thanks

Tom

Date: Wed, 5 Nov 1997 17:30:03 -0600
From: launerb@crl.com (William H. Launer)
To: boatanchors@theporch.com
Subject: Heath AR1
Message-ID: <v01530500b086a85298ba@[192.0.2.1]>

Ed Zeranski wrote:

>I messed up and said AR1 the first time I answered this.

>Was there such an animal?

The first kit I built was a Heath AR-1 (1951?); I still have it, and it still works! It tunes bcb through 20 MC in 3 bands, with no bandspread or bfo.

73, Bill wb0cld

Bill Launer
St. Charles, MO
launerb@crl.com
wb0cld@wb0cld.ampr.org [44.46.66.25]
qrp-1 #279 qrp arco #3551
Grid Square EM48RT

Date: Wed, 5 Nov 1997 16:41:28 -0800
From: "Grumps Guide Press" <rau@wco.com>
To: "boatanchors" <boatanchors@theporch.com>
Subject: Commercial Postings
Message-ID: <199711060041.QAA21208@shell.wco.com>

I can't help but notice that several times a week there are obvious commercial postings with references to web sites.. BA related true.. but commercial.

And I get email from commercial dealers wanting to buy my stuff for resale.

In other words...they want to buy here cheap.. and resell here dearly.
Such a deal.

Doesn't this rate a "jack attack " as some one called it in some private e-mail today?

Larry W6WUH

Date: Wed, 5 Nov 1997 19:52:11 -0500
From: "Ornitz, Barry L" <ornitz@eastman.com>
To: "'boatanchors@sco.theporch.com'" <boatanchors@sco.theporch.com>

Cc: "'ornitz@tricon.net'" <ornitz@tricon.net>

Subject: Cleaning Old Rigs (Again!)

Message-ID: <c=US%a=_%p=Eastman%l=NTD150-971106005211Z-20329@ntd150.kpt.emn.com>

I think I'll not add to the nostalgia by writing how I got here... Instead I'll bring up a subject I have written about before, but because our group is constantly adding new readers, I'll bring it up again.

Someone suggested "Son-of-a-Gun" and "Armorall" for cleaning old rigs.

If you EVER even CONTEMPLATE repainting any rig, stay completely away from any silicone oil-containing wax or polishes like these. Paint will never adhere properly to any surface treated thusly without one heck of an effort at cleaning. Remember too that all good solvents that were really capable of cleaning away such silicones are now banned as either ozone destroyers or too toxic and dangerous for use.

I consider the use of Armorall and such the lazy way of cleaning a rig (usually for a quick sale at a hamfest). Anyone who wants to properly restore an old treasure should use the "Armstrong" method - lots of elbow grease with nothing stronger than simple soap and water. If you must use a wax to bring out a shine, use an old-fashioned Carnuba or other "natural" paste wax. This CAN be removed by conventional solvents if you want to repaint.

I have found that Dow's foaming bathroom cleaner and similar products are useful for cleaning most knobs and SOME painted surfaces. The active ingredients here are glycol ethers which are relatively mild solvents. They DO attack some surfaces, however, so be careful and test first. As someone pointed out, printed surfaces (such as dial markings on glass or plastic) are especially delicate and can be destroyed by even the gentlest of cleaners.

I am not familiar with the "cartridge polish" mentioned earlier, but I suspect it is just a high-priced version of Brasso (diatomaceous earth in dilute ammonia solution). Remember if it polishes metal, it is likely an abrasive. So watch where you use the stuff - get it in bearings or such and you have a severe problem.

In conclusion, there is no magical method of cleaning old boatanchors easily without damage. It is better to go slowly with old radios. If you take any shortcuts, be prepared to pay the price.

73, Barry L. Ornitz WA4VZQ ornitz@tricon.net

Date: Wed, 5 Nov 1997 16:56:48 -0800
From: "Grumps Guide Press" <rau@wco.com>
To: "boatanchors" <boatanchors@theporch.com>, <JOHN_SEHRING.parti@ecunet.org>
Subject: Balancing parallel tubes
Message-ID: <199711060056.QAA26404@shell.wco.com>

the only really practical thing to do is to measure the tubes and match Gm...but since they are in parallel.. what is the big deal ? don't over drive the thing... as long as the weakest tube isn't delivering more than it is able, there won't be distortion and the other tubes loaf along....in other words.. you still have to load it down for it to stay linear.. but you don't have to drive the hell out of it .

If you know you have a giant difference in Gm or more likely filament emission between tubes.. at least buy one good one for the 572B rig ;make a test jig and test the things on a tube tester.. and reduce the filament voltage a notch...your Gm shouldn't change much if filament emission and life are any good.. if it does..the tube is on it's way out.... a really big change means it is a dead duck in high power amplifier service.

Date: Thu, 6 Nov 97 01:01:25 UT
From: "Allan Fritsche" <fritsche@classic.msn.com>
To: boatanchors@theporch.com
Subject: SX-100 Bashing
Message-ID: <UPMAIL03.199711060101480651@classic.msn.com>

Hey Gang, there is really nothing wrong with the SX-100 Receiver..
Just mount it in a vertical position, like a PC Tower and you will get good results..Lets see , power transformer to the left or right. Can't remember?

BTW, it's so Dam pretty, who cares if its stable...

It's got to be better then a regen set.

Your Friend Al
fritsche@classic.msn.com

KD5CML

Date: Thu, 6 Nov 1997 01:27:24 +0000
From: Sandy W5TVW <ebjr@worldnet.att.net>
To: badger@telalink.net, boatanchors@theporch.com
Subject: Re: tube sub question - 6K6
Message-ID: <19971106012722.AAA15981@LOCALNAME>

At 11:01 PM 11/5/97 +0000, you wrote:

>Looking for subs for 6K6 -- 6F6 and 6L6 have
>somewhat similar specs loadwise, but are either
>"close enough" for a sub in the class A output of my RBL?
>

Closer yet is the 6V6! The 6F6 is a close second. I wouldn't use either
is the heater string is supplied with a 12 or 24 volt source! If they are all
in parallel, should be no problem. The 6L6 will probably work, but the
heater current is better than double and it will draw much more B+ current.

Hallicrafters liked the 6K6. "Subbing" others (6F6, 6V6, 6L6) in one of their
sets will put an undue load on the power transformer. Hallicrafters was
never known for any or much of a "reserve" in their sets! If your power supply
can stand a little extra drain go with the 6V6 or 6F6.

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive

Metairie, LA., 70001

860 Hartley 'ECO' under construction
*** Looking for a TRC-10 transceiver *****
*** looking for an RAL receiver *****

Date: Wed, 5 Nov 1997 19:54:54 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Tom Norris <badger@telalink.net>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: tube sub question - 6K6
Message-ID: <Pine.ULT.3.96.971105194724.3246A-100000@admin.aurora.edu>

On Wed, 5 Nov 1997, Tom Norris wrote:

> Looking for subs for 6K6 -- 6F6 and 6L6 have

> somewhat similar specs loadwise, but are either
> "close enough" for a sub in the class A output of my RBL?

Subbing the 6-6 family of tubes has come up before and we get various answers. Here are the essential specs:

Tube	Fil	Amps	Bias	Ip	Isg	Rload
6K6	.4		-18	32ma	5.5ma	7600 ohms
6F6	.7		-16.5	34	6.5	7000
6V6	.45		-12.5	45	4.5	5000
6L6	.9		-14	72	5.0	2500

So it kinda depends. If the filament current is not an issue, then the 6F6 is probably the closest followed by the 6V6. The 6L6 is pretty far off both in terms of plate and filament current. The above specs are all with 250V plate and screen, by the way. Probably in that receiver you could stand the additional .3A filament current. Check the bias - maybe you wont have to change the cathode bias resistor. For the 6V6 you surely would.

UFO's are real! (It's the Air Force that does not exist)
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Wed, 5 Nov 1997 18:13:12 -0800 (PST)
From: Dick Dillman <ddillman@igc.apc.org>
To: boatanchors@theporch.com
Subject: Sputnik?
Message-ID: <2.2.16.19971105181256.40875f1c@pop.igc.org>

I heard on the news the other day that the Russians, during their space walk to patch the hole in Mir, releases a "working replica os the original Sputnik satellite". Wow! How well I remember listening to Radio Moscow in 1957 on my Hallicrafters S-38C and hearing them announce the launch. I ran downstairs to tell everyone - and nobody believed me! Such was our opinion of the Russians at the time.

But as I remember it the frequencies were 20.002Mc/s and 108.?Mc/s. Clever choices as you could tune just off WWV for one (although the S-38C wasn't up to copying the signal) and just above the FM broadcast band for the other.

I haven't heard anything about the new Sputnik since. Anyone copy?

73,

Dick

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Date: Wed, 5 Nov 1997 18:13:09 -0800 (PST)
From: Dick Dillman <ddillman@igc.apc.org>
To: JOHN_SEHRING.parti@ecunet.org, boatanchors@theporch.com
Subject: Re: MW POLICE RADIO
Message-ID: <2.2.16.19971105181253.4017e65e@pop.igc.org>

At 03:24 PM 11/4/97 -0500, you wrote:

>If memory serves correct, the last MW police transmitter left the air in
>about 1952. It was located in southern New Jersey I believe. There may
>have been two police bands, about 1.6 to 1.8 MHz, and something above 2
>MHz.

I believe they lasted just a bit longer, at least where I grew up.

I'd been dragging home old radios and telephones since I was 4 years old but the thing that got me really hooked was listening to KEB237, the lusty voice of the Nassau County PD, around 2.5Mc/s in the mid 50s as a teenager. This was on my dad's Zenith clock radio with a "shortwave" band extending to maybe 4Mc/s. It was a two way circuit as the dispatchers would wait for the cars to acknowledge the call. I never heard any of the cars. They could have been on MF as well but operating duplex (I never thought to tune for 'em). Or they could have been replying on VHF although the 1954 Pontiac cruisers had antennas as long as fish poles. I can still remember the whole dispatch sequence and many of the signals.

73,

Dick

Dick Dillman
<ddillman@igc.apc.org>

WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Date: Wed, 05 Nov 1997 20:15:10 -0600
From: Tom Norris <badger@telalink.net>
To: boatanchors@theporch.com
Subject: Tube sub help, thanks
Message-ID: <3.0.3.32.19971105201510.009137c0@telalink.net>

Well, looks like a choice between the 6F6 or the 6V6.
Actually had meant 6V6 in the original message rather
than the 6L6.....

Looks like both work fine in the RBL, with the 6V6 giving a bit
more output. Doesn't seem to be any overheating with the 6V6 either,
so will probably go with that till the new 6K6 gets here....

Thanks for help, folks.

73

Tom

Date: Thu, 6 Nov 1997 02:19:47 -0000
From: "Larry Johnson" <k5yf@wt.net>
To: <ornitz@eastman.com>, "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: Cleaning Old Rigs (Again!)
Message-ID: <01bcea5a\$7403e5e0\$af988bce@k5yf.wt.net>

Barry, well....I confess, I was the one that suggested Son-of-a-Gun. I
wasn't aware of the issues you mentioned, and appreciate the extra
information you provided about cleaning and not being able to paint it. In
my defense, and I didn't mention this in my note, I will say I've only used
it on front panels and not cabinets. And...it is not my intent to repaint
the panels, particularly since all the ones I have are in good shape and I
would personally try to avoid such a task to keep from destroying the
lettering. And in this case, it seems to do an excellent job. Anyway, thanks
again for the extra info.

Larry Johnson, K5YF
Houston, TX

e-mail: k5yf@wt.net

-----Original Message-----

From: Ornitz, Barry L <ornitz@eastman.com>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Thursday, November 06, 1997 12:59 AM
Subject: Cleaning Old Rigs (Again!)

>I think I'll not add to the nostalgia by writing how I got
>here... Instead I'll bring up a subject I have written about
>before, but because our group is constantly adding new readers,
>I'll bring it up again.

>

>Someone suggested "Son-of-a-Gun" and "Armorall" for cleaning
>old rigs.

>

>If you EVER even CONTEMPLATE repainting any rig, stay completely
>away from any silicone oil-containing wax or polishes like these.
>Paint will never adhere properly to any surface treated thusly
>without one heck of an effort at cleaning. Remember too that
>all good solvents that were really capable of cleaning away such
>silicones are now banned as either ozone destroyers or too toxic
>and dangerous for use.

>

>I consider the use of Armorall and such the lazy way of cleaning
>a rig (usually for a quick sale at a hamfest). Anyone who wants
>to properly restore an old treasure should use the "Armstrong"
>method - lots of elbow grease with nothing stronger than simple
>soap and water. If you must use a wax to bring out a shine, use
>an old-fashioned Carnuba or other "natural" paste wax. This CAN
>be removed by conventional solvents if you want to repaint.

>

>I have found that Dow's foaming bathroom cleaner and similar
>products are useful for cleaning most knobs and SOME painted
>surfaces. The active ingredients here are glycol ethers which
>are relatively mild solvents. They DO attack some surfaces,
>however, so be careful and test first. As someone pointed out,
>printed surfaces (such as dial markings on glass or plastic) are
>especially delicate and can be destroyed by even the gentlest of
>cleaners.

>

>I am not familiar with the "cartridge polish" mentioned earlier,
>but I suspect it is just a high-priced version of Brasso
>(diatomaceous earth in dilute ammonia solution).
>Remember if it polishes metal, it is likely an abrasive. So
>watch where you use the stuff - get it in bearings or such and
>you have a severe problem.

>
>In conclusion, there is no magical method of cleaning old
>boatanchors easily without damage. It is better to go slowly
>with old radios. If you take any shortcuts, be prepared to pay
>the price.
>
> 73, Barry L. Ornitz WA4VZQ ornitz@tricon.net
>

Date: Wed, 05 Nov 1997 18:47:11 -0800
From: Dan Arney <kn6di@groupone.net>
To: fritsche@classic.msn.com
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: SX-100 Bashing
Message-ID: <34612FAE.3B490028@groupone.net>

Allan Fritsche wrote:

Allan mine just sits over there and glows,tis a pretty rec. and it plays
good..
Hank KN6DI

> Hey Gang, there is really nothing wrong with the SX-100 Receiver..
> Just mount it in a vertical position, like a PC Tower and you will get
>
> good results..Lets see , power transformer to the left or right. Can't
>
> remember?
>
> BTW, it's so Dam pretty, who cares if its stable...
>
> It's got to be better then a regen set.
>
> Your Friend Al
> fritsche@classic.msn.com
> KD5CML

Date: Wed, 05 Nov 1997 21:13:56 -0600
From: bdhall@ghg.net (Benjamin D. Hall)

To: BoatAnchors@SCO.ThePorch.Com
Subject: Grandpa's package
Message-ID: <3.0.32.19971105190909.0070a5d4@mailman.ghgcorp.com>

Greetings all...

Many of you probably read my story yesterday of how I got involved in BA's: my grandpa gave me an SX-24.

Well, today I received a package from my Grandpa. Inside the package was three books: A 1937 Allied Radio catalog, a 1959 ARRL Handbook, and a 1938 ARRL Handbook. A quick look thru the catalog and the handbook was an unreal experience - here were the ads that touted Hallicrafters reliability in a letter from a Navy Officer, ads that talked about the "new" 100 Series Hammarlund "Super Pro". These sets were new when my Grandpa was just a little younger than I am now...

I'm floored... I've enjoyed BA's for years, but never had the chance to look at any of the old sales literature. It is so wierd to look at this 1937 catalog and then look over and see one of these radios on my table...

Wow...

73,
Ben

Benjamin D. Hall, KD5BYB, Engine and radio collector / operator
extraordinaire. Located in Houston, Texas, USA.
e-mail: BDHall@ghg.net web:<http://www.ghgcorp.com/bdhall>

Date: Wed, 05 Nov 97 13:53:45
From: "al parker" <al_parker@kacc.com>
To: nq5t@gte.net, boatanchors@theporch.com
Subject: Re: R388 T-102/xtal filter alignment
Message-ID: <9710058787.AA878766825@ccuucp.kacc.com>

Grant wrote:

>My Army R-388 tech manual is totally moot on the subject of
>alignment of the crystal filter ... specifically how to adjust
>T-102.
>Anyone have a manual version which gives instructions for this?

My Collins manual covers it in parts of 2 pages, too much to copy here, but let me know if you want a copy of the pages, I'll get copy made tomorrow at the local shop & send. Would appreciate \$1

later only for copy cost & stamp. The next page covers a neat way to calibrate the BFO without a sig. gen., if yours doesn't have that (T-106), let me know - I did it yesterday after fixing a problem with the pitch adjust capacitor--plates were touching at one area of rotation.

I had 4 or 5 digests stacked up this AM, your request was in the first & I didn't see a response. Guess I didn't read them yesterday. Enjoyed reading all the "how I got here" letters. Took 2 hrs - going to be tough going back to work next week.

Date: Wed, 5 Nov 1997 20:23:33 -0700 (MST)
From: Henry van Cleef <vancleef@netcom.com>
To: badger@telalink.net
Cc: boatanchors@theporch.com
Subject: Re: tube sub question - 6K6
Message-ID: <199711060323.TAA01628@netcom2.netcom.com>

As Tom Norris discourses

>
> Looking for subs for 6K6 -- 6F6 and 6L6 have
> somewhat similar specs loadwise, but are either
> "close enough" for a sub in the class A output of my RBL?
>

I would suggest using a 6V6 with the original 6K6 bias setup. If you want to do it permanently, you should drop the bias a little---from maybe 18-19 volts to more like 16-17, to keep it from bottoming out on strong signals. Heater currents are the same, and about the only difference with the same bias is that you will get cutoff earlier in the 6V6. Run maybe 40-45 ma. Ik instead of 37-38 ma. at idle---there should be enough room in things to handle this.

The 6K6 equivalent in beam tubes is the 6W6 (same as 25/35/50L6 except for heater); however, you MUST get screen voltage down to about 120 to control idling current. The 6W6 was an afterthought; the others are high Gm tubes for AC-DC operation. This screen voltage issue is one that makes it difficult to use 6146 for 6V6 or 807 replacement. You can't feed the screen from the plate supply, and screen current runs about 10% of plate current in a beam tetrode, so you MUST have a low impedance screen supply.

All in all, 6V6 is a toob you can use just about anywhere. Nice and tractable, long life, and lots of power handling capability.

--

=====
Hank van Cleef
=====

Date: Wed, 5 Nov 1997 22:32:35 -0500 (EST)
From: "David L. Thompson" <thompson@mindspring.com>
To: boatanchors@sco.theporch.com
Subject: Re: QF-1
Message-ID: <1.5.4.16.19971105233308.33ff01fa@pop.mindspring.com>

I used the Heath QF-1 with my first real receiver..the S-40B in 1956.
The QF-1 was used with more receivers than any other single accessory.
Only the Heath SWR Bridges (I have three AM-1, AM-2, HM-15) sold better.

Guess MFJ is the modern day Heath. Sure wish we could heat up the ole
soldering iron (oops I gave that to Steve Finelli with the TBW-5 stuff).
Well all for the better..that iron would melt those printed circuit boards
anyway. Hey, my 40 year old Weller gun worked great in making the mod to
put the Elmac A-54H on 40...now were is the rest of that 3011 coil stock I
used.....

73 and happy BA
Dave K4JRB

Date: Wed, 5 Nov 1997 23:20:57 -0500
From: Brian Bjerkelund <brianbj@compuserve.com>
To: BOATANCHORS <boatanchors@theporch.com>
Subject: URM 25-D Sig Gen
Message-ID: <199711052321_MC2-26F4-217@compuserve.com>

Hi Group! Today I scored a nice-working URM 25D generator, with manuals,=
but no lid or accessories. While I can make up the attenuators, I really=
would like to have a lid.....keeps the cooties out. Does anyone have an
extra they want to unload for a nominal fee?

Thanks es 73, =

Brian, KC7ZDA
brianbj@compuserve.com

Date: Wed, 5 Nov 1997 20:38:31 -0800 (PST)
From: John Kolb <jlkolb@cts.com>
To: "Roger A. McCarty" <rmccarty@DELTANET.COM>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Heath QF-1 Query
Message-ID: <Pine.SCO.3.91.971105203641.15619B-100000@sd.cts.com>

On Wed, 5 Nov 1997, Roger A. McCarty wrote:

> Can someone tell me which Heath Receiver(s) the Q-Multiplier was
> intended to operate?

Think they were almost always sold by themselves for use
with other manufacturer's receivers. Only Heath rx I can think of
with a 455 kHz IF would have been the AR-3 general coverage rx.
Certainly would not work with the SB-3xx series.

John KK6IL

Date: Thu, 6 Nov 1997 00:06:43 -0500 (EST)
From: KA9EGW@aol.com
To: boatanchors@theporch.com
Subject: Re: Balancing parallel tubes
Message-ID: <971106000023_-2043397979@emout03.mail.aol.com>

There's something to be said for amplifier stages like in the 4-6KD6's
handbook rig where the bias on each tube was independently adjustable. In
those days, monitoring each tube's cathode current individually was
relatively cheap too...sigh.
Of course, tuned-link-coupled push-pull stages feeding ladder line don't have
this problem, hi!
For a plate-modulated stage, I wonder if individually-adjustable screen
resistors would do it for beam power tubes?
You guys out there with more knowledge than me, what's the best way to
implement this?
73 de ka9egw

Date: Wed, 5 Nov 1997 22:56:08 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Boatanchors <boatanchors@sco.theporch.com>

Subject: Re: My turn

Message-ID: <Pine.ULT.3.96.971105223443.4658A-100000@admin.aurora.edu>

Very interesting reading on this thread. I was probably less than 7 years old when I started tuning the dial on the family G.E. console in the living room. Naturally all those voices coming from that big box were actually little people inside it.

When I was about 9 (in 1949), my dad got me a crystal set, and helped me build it (I still can see us at the kitchen table trying to wind that coil without losing the wire). It never did work. I'm sure the xtal was shot. A few years later he got me a Philmore regen (1T4 & 3V4 I think). We put that together and it was wonderful! I used to save all the pennies I could find to buy batteries for it and ran around with it in the basket of my bike, wearing headphones. When I was 13 or so, I made another xtal set and listened to the local hams on 160 meters. Somehow I found a callbook and wrote to them all asking for help on how to be a ham. 2 years later one of them found my letter that he misplaced and took me under his wing til I got my novice.

My first rig was similar to the "QSL Forty" and I managed to buy a new S-38C in 1956. After getting a "pink ticket" for 2nd harmonics, I scrapped the TX and bought a Globe Chief. When I got my General, I built a push-pull 6L6 modulator for it and had a ball on 160 and 75 fone.

Many years and many rigs later, I decided to get rid of all the obsolete tube stuff and stick with solid state (except for some test gear). So the Drakes, and C.E., and Hallis, etc all went out the door. Nothing but Kenwoods for me from now on - right? I have had TS-520's, TS-820's, and still have a TS-930 as well as a Icom R-71A rcvr.

Well, a couple of years ago, I got to thinking about the old HRO's and such that I once had and thought, gee, it would be nice to play with some "real" radios again. Then I got introduced to this BA group and look out hamshack!

I worked in broadcasting (mostly tube stuff) and also designed test sets at AT&T (all solid state stuff) so I have had some of both professionally. If I had to move into a 4 foot square room and could only keep one piece of ham gear - which would it be? Probably one of my HRO receivers.

I think Wm Donzelli summed it up nicely:

> looking at a big beast thinking "once your kind numbered
> thousands, and now you are one of a few survivors" is a real thrill. It

> sounds corny, but try thinking about it. The equipment on your table or
> floor has seen much history, and has missed the cutting torch many times.
> Maybe it is a lone survivor. Maybe it was part of some historic
> communication. But now it is safe, and can be enjoyed for years to come.

UFO's are real! (It's the Air Force that does not exist)
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Thu, 6 Nov 1997 00:33:28 -0500 (EST)
From: Ho4bart@aol.com
To: boatanchors@sco.theporch.com
Subject: Re: The "Gibson Girl"
Message-ID: <971106003328_-291002317@mrin39>

one more on boys mixing it up with the 'gibson girl' :

".....not trying to steal thunder"....in 1951...a friend of
my Dads told him that the "GPO" was looking a few streets
away for an emergency transmission from "someting? My
Dad panicked and took my Gibson Girl away. He "disposed"
of it later!! "

[Tony Grogan via hue miller]
[GPO = UK equivalent of FCC, i believe . -hue]

Date: Thu, 6 Nov 1997 01:27:55 -0500 (EST)
From: Ho4bart@aol.com
To: 71333.144@compuserve.com, boatanchors@theporch.com
Subject: Re: My turn
Message-ID: <971106012754_-1576421052@mrin42.mail.aol.com>

In a message dated 97-11-04 13:32:42 EST,
71333.144@compuserve.com writes:

> I had accumulated about 8000 tubes, mostly used. And I
tried to make a go of it with them but it ended up being just
too much work. Eventually I just picked out about 2000 that
I thought I might ever need and gave the rest away.....<

at that same swapmeet where i encountered the tube audio
fans, the tube dealer told me he had filled a dumpster with

late-model TV tubes, like the 4AU6 and the 33GY7 and such.
i must have looked pained (it pains me to think of tossing
something "usable" out....) but he explained that there was
NO demand for them. who repairs a nonclassic tubetype TV?
i guess that's true. when they quit, they're just crap, they don't
look good and who would sink money into repairing them?
some few of these type receiver tubes go into some very few
series filament ship communication receivers of the (i guess)
60s era but who pays for a 33GY7 ?? so, it's off to the landfill.
at least they're glass and metal and will (maybe / probably)
break down in a millenium? hue miller

Date: Thu, 6 Nov 1997 01:50:40 -0500 (EST)
From: Ho4bart@aol.com
To: JOHN_SEHRING.parti@ecunet.org, boatanchors@theporch.com
Subject: Re: MW POLICE RADIO
Message-ID: <971106014400_-2111940791@emout04.mail.aol.com>

In a message dated 97-11-04 15:29:15 EST,
JOHN_SEHRING.parti@ecunet.org writes:

> If memory serves correct, the last MW police transmitter
left the air in about 1952. It was located in southern New Jersey
I believe. There may have been two police bands, about 1.6 to 1.8
MHz, and something above 2 MHz. <

well, you must mean New England area, cuz i heard california police
in 62 or 63. i found a Salt Lake City, Philco police receiver with test
labels on the tubes dated 1952 or maybe even later.
the 2 mc/s freqs were the first to go, these frequencies became
exclusively marine. (and one strange execption, the low marine
AM channels of 1622 and 1630 kc/s.
btw, for a year after the 1976 end of HF AM, we at the surplus store
would get Alaska fisherman buying the big bulletproof Northern Radio
AM blasters. "gets out better than the SSB or vhf" they would say.
i attribute this to the lower freqs used in the AM gear, 2 mc/s vs.
the ssb equipment in the 4-6-8 mc/s bands. the 2 mc/s would have
more local groundwave coverage with less sent off at low dx angles.
that's my take on it, anyway. -hue miller

Date: Thu, 6 Nov 1997 01:58:29 -0500 (EST)
From: Ho4bart@aol.com
To: JOHN_SEHRING.parti@ecunet.org, boatanchors@theporch.com
Subject: Re: MCLAUGHLIN RECEIVERS

Message-ID: <971106015829_445144269@mrin47>

In a message dated 97-11-04 15:30:50 EST,
JOHN_SEHRING.parti@ecunet.org writes:

> The McLaughlin receivers (mentioned in an earlier post) had
extraordinarily steep-sided selectivity curves (for the WWII era
anyway) gotten thru use of very low IF frequencies, around 50 KHz.
The OSS used them. They were described in QST around 1941 & 1947
or so. <

actually weren't these were add on outboard demodulators, except for the
Hallicrafter MSR-202 which packaged the McLaughlin below an SX-28 in
the same desk-style assembly. one of those articles sez the selectivity
characteristics were useful for copying the Japanese syllabary in the Tokyo
propaganda broadcasts. The FBIS of the FCC recorded these broadcasts on
disks for transmittal to washington for analysis of trends and also POW info.
some unscrupulous american dx'ers did the same and tried to make money
off this, contacting POW families with offers to share the info they'd
gathered.

much of what i know abt this is from talking to Jim Barrows W7BCT who
worked for the FBIS / FCC. got to interview that man for an article.
i'm thinking Halliscratcher's involvement with McLaughlin accelerated the
progress into low-frequency selectivity systems, for example the 50 kc/s
"ssb if" seen in the SX-100, SX-76 et al.
hue miller

Date: Thu, 6 Nov 1997 02:26:45 -0500 (EST)
From: Ho4bart@aol.com
To: boatanchors@sco.theporch.com
Subject: re: my turn
Message-ID: <971106022645_968557651@mrin40.mail.aol.com>

some of us who spent early years in europe in the last years
before the plug-in drug [TV] became ubiquitous had the
romance begun by the allure of the home radio (yes, THE
home radio, not one in every room and every drawer and even
in the shower). the parents i suspect liked the prestige or aura
of quality in the multiband dial but did rather little exploring. on
off hours the youngster might explore the dial LW, MW, KW
and try to pull in those cities spread across the long glass slide
rule like some miniature world. at night you might actually hear
strange languages at some of the spots that coincided with

markings like Riga, Vilnius, Belgrad, Oslo, Roma.....
and then there were musician figures on the dial also, or
instrument figures that lighted up to represent tone quality,
and buttons to push for tone: Sprache, Jazz, Orkester.....
true user involvement, you had to decide which content you
were receiving and then push the appropriate button.....and at
night on the wall behind the radio, was projected a miniature city
with rectangular shapes resembling buildings, illuminated by
little glowing minarets.
of course, you had to remember too, just where to reset the dial,
to where it was before you explored!
Joseph Brodsky (excuse possible ignorant misspelling), the late
poet-laureate of the USA, russian-born, wrote about similar
experience in one of his memoirs, with a german radio some
relative had brought back. in his case the experience was even
more poignant, as it opened a window to a whole other world, one
light years away from the oppressive 1950s USSR.
i think maybe too the magic of radio evokes for us a cozier, less
crass world too, than the overexposed, oversold, low attention
span world of television.
hue miller,
in the green Republic of Oregon
"have you hugged your trees today?"

Date: Thu, 6 Nov 1997 03:18:47 -0500 (EST)
From: ARONGV@aol.com
To: boatanchors@theporch.com
Subject: BA Beginnings
Message-ID: <971106031311_646760169@emout11.mail.aol.com>

Hi Gang:

First, housekeeping notes. After the great RME/Hallicrafters giveaway, I've uncovered a few other "forgotten projects." Anyone interested in a DX-60 chassis complete but with a hole drilled (not by me!) in the front panel? Looks complete, very clean and worth the effort, but missing a few knobs. \$10 + shipping.

Also, got "taken" on a Globe Scout 680A. Face nice, cabinet a 7 but on the front someone has replaced with crystal socket with a coax connector? Ugh! But it is complete and working. Any takers for \$20 + shipping?

Thought about you guys at a late summer swap meet. Picked up a gorgeous gem that looked too good to pass up: a pristene military ZM-4B/U made for the Signal Corps. It's a very compact, black faced resistance bridge in a OD military box with a cover hinged so it can be removed. All 5 knobs, several

pushbuttons and binding posts look like they've never been used. Meter is very nice.

Inside the cover is an engraved plaque that explains how to use it. Its OD canvas handle is nearly perfect, even though this obviously was a unit designed and used a very long time ago (date?).

I got it because I thought someone on this list is perhaps more a gadget person than me. Couldn't let an almost museum quality piece become an orphan, so if you're interested, I can shoot a polaroid shot of it or you can take my word for it that no true BA person would toss it out. If anyone wants it more than I do, this little 4"x8"x8" unit is available for \$35 + shipping. But if no one wants it, it'll never leave my petting zoo as it's just the sort of thing a gadget person like me would hang onto.

Now, as for BA startup and age? I was licensed at 16 in 1848 as W00IZ, a call I still have.

But BA activity didn't start until five or six years ago when I was asked to fix a radio by a non-ham who wanted to keep it because it was his dad's radio. It was a shock to lug that SX-101 onto my bench alongside my TS-940SAT and TS-830S.

But when I got it working, I was so impressed I went right to the Yellow Pages and bought one for myself. That did it. Last year I sold all my solid state gear and went totally BA, with my latest project being to revive a pair of Conar 400 and 500 xmtr and rcvrs. Restoring BAs has replaced my DXCC hunt (at 289 and 5BDXCC).

I think boatanchors have become a safe haven for hams who still want to know "what's under the hood." One look inside *any* SS unit today is enough to make you either a black box operator or a confirmed BA junkie.

As technologies bombard us, we either have a choice of staying in the hands-on world or accepting the hands-off world.

Starting with a crystal set at age 12, I went on to the S-20R and S-38 to become what I thought was an accomplished SWLer, as I had cards on my wall from SW stations around the world. But a ham, W0LLN, led me into ham radio, and it changed my personal and professional life.

Today I'm the editor-in-chief of Television Broadcast magazine and the editor of Government Video magazine, both very high tech magazines, and magazines that I launched myself.

I didn't start collecting because I couldn't afford it back in the old days. I was poor, that's for sure, and I walked "through six feet of snow to school!" If I couldn't afford something commercial, I built it myself. It's

the old school engineering and the fact that I can still feel comfortable when I raise the lid, and that on cold winter nights I can stay warm in the shack from the glow of my filaments and dial lights, that keeps me on the BA path.

And it's the best of all "virtual ham worlds," outside being in a QSO with friends, that keeps us all exchanging ideas and equipment on this list. I never heard the term "Elmer" before I landed here, but now its my conclusion that the list is made up of Elmers.

73s de Ron/W00IZ sk ee

End of BOATANCHORS Digest 1761

>From ???@??? Fri Nov 07 04:49:40 1997
Message-Id: <199711062037.0AA14300@sco.theporch.com>
Date: Thu, 6 Nov 1997 14:37:18 CST
Subject: BOATANCHORS digest 1762

BOATANCHORS Digest 1762

Topics covered in this issue include:

- 1) Re; QF-1 Query
by "Roger A. McCarty" <rmccarty@deltanet.com>
- 2) My Story
by Ronnie Hull <w5sum@ms1.nwla.com>
- 3) Re: Balancing parallel tubes
by "Roberta J. Barmore" <rbarmore@indy.net>
- 4) RE: Unsubscribe
by mdenison@blazenet.net (Morton Denison)
- 5) Subject: SX-100 Bashing
by Kevin Pease <hamradio@mm1001.theporch.com>
- 6) Davidson-xfrme use
by "Paul Bernhard" <W2TU@classic.msn.com>
- 7) GFI
by "Paul Bernhard" <W2TU@classic.msn.com>
- 8) Re: Grandpa's package
by Avery Comarow <acomarow@USNEWS.COM>
- 9) FREEBIES - DX-35 - DX-40
by Dan Arney <kn6di@groupone.net>
- 10) Re: My turn
by Bob Roehrig <broehrig@admin.aurora.edu>
- 11) "useless' tubes
by "Joseph W. Pinner" <kc5ijd@sprintmail.com>

- 12) Re: GFI'S
by Randy Zelick <h2rz@odin.cc.pdx.edu>
- 13) Tektronix matched 7586 Nuvistors
by John Shriver <jas@shiva.com>
- 14) Wanted: Hallicrafters Knob
by Hannelore Breuer <hbreuer@metronet.de>
- 15) THE FREEBIES WENT BEFORE THE 2ND CUP OF BREW
by Dan Arney <kn6di@groupone.net>
- 16) Collins crystal filter
by John Shriver <jas@shiva.com>
- 17) Donle Tube ?
by Jerry Proc <jproc@idirect.com>
- 18) RBU-1 Panadapter
by Brian.Harris@sv.sc.philips.com (Brian Harris)
- 19) RE: Cleaning Old Rigs (Again!)
by "Ornitz, Barry L" <ornitz@eastman.com>
- 20) Re: Donle Tube ?
by "Mike B. Feher" <n4fs@monmouth.com>
- 21) Comet Pro-gress (so to speak...)
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 22) RE: Cleaning Old Rigs (Again!)
by "Ornitz, Barry L" <ornitz@eastman.com>
- 23) The RS 21-543 DSP
by Roger Faulstick <agemi@flips.net>
- 24) Geloso mdl G209
by BRICKEY_PETER@Tandem.COM
- 25) Need Schematic for T-339
by anders@autopsy.csd.sgi.com (Greg Anders)
- 26) Re: Geloso mdl G209
by Ken Gordon <keng@uidaho.edu>
- 27) Bypass caps
by "Rhett T. George" <rtg@ee.duke.edu>
- 28) Big tube
by Kevin Gallagher <wire2liv@gomontana.com>
- 29) WTB at November 15th. Hamfest at Pomona: 75A4
by Hal Waite <halwaite@sprintmail.com>
- 30) Help! TS-505 cover available
by BOB RAGAIN <RAGAIN@hubvx6.sedalia.wireline.slbb.com>
- 31) SX-100 as VW Super Beatle
by MNHopkins@aol.com
- 32) Re: Donle Tube ?
by Jerry Proc <jproc@idirect.com>

Date: Thu, 06 Nov 1997 01:11:12 -0800
From: "Roger A. McCarty" <rmccarty@deltanet.com>
To: boatanchors@theporch.com

Subject: Re; QF-1 Query
Message-ID: <346189B0.3960@deltanet.com>

Thanks!!! to all who responded.

A great group

73

Roger KD6CC

Date: Thu, 06 Nov 1997 04:57:27 -0600
From: Ronnie Hull <w5sum@ms1.nwla.com>
To: Boatanchors@theporch.com
Subject: My Story
Message-ID: <3.0.1.32.19971106045727.0069fd18@ms1.nwla.com>

Believe it or not, Boy Scouts got me into amateur radio...sort of!
I had to know the morse code for my first class badge. All I had was the Scout Handbook. It took me a few weeks but I got the hang of it. Then I worked on my Radio Merit Badge, taught by one of the men in the troop. He quickly picked up on the fact that I had an interest in radio. One day he showed up at our house with a big ugly radio and said I could use it for a while if I wanted to. This was in 1965, and the radio was a BC348!!!! The hook was set...

My dad took me to meet a real amateur one day, a gentleman he had met. This was WA5OQC, Jim Braley in Shreveport. Jim talked with me for a while then handed me his code practice oscillator and told me to send him a little code, and gave me a couple of paragraphs in a radio amateur handbook to send him. I did. Then he sent me a couple of paragraphs. I copied it just fine. To my amazement, he told me " you just passed your novice code test!!"

I took my written, then waited the obligatory 10 weeks for my license which arrived in the mail 10 minutes before we left to go to Ft. Worth Texas for the thanksgiving holidays. Imagine my disappointment!

arriving home I promptly blew the final in the Eico 720 my dad had purchased for me... so I had to wait another day...

my first contact was WN8AAD in Ohio...

you know the rest of the story...

within a few weeks I had put my first command set tx/rx on the air, and

then acquired an old BC669...

I've never quit!!

Ronnie - W5SUM

W5SUM

Ronnie Hull

ex: WN5AIA - WB5AIA

TEN-TEN #2019

Date: Thu, 6 Nov 1997 07:42:13 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: KA9EGW@aol.com
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Balancing parallel tubes
Message-ID: <Pine.SUN.3.96.971106070822.18650C-100000@indy2>

Hi!

A few thoughts on this--I don't build big multi-tube amps for ham gear, however, so don't take it as gospel. There are a few folks on the list who *do* the big amp thing, and they're the ones to look to for the inside dope on the topic.

On Thu, 6 Nov 1997 KA9EGW@aol.com wrote:

> There's something to be said for amplifier stages [...] where the bias
> on each tube was independently adjustable.

This is the way to go, and is typical of broadcast practice. TV rigs, running in Class A or A1 (!!!) generally gave you a knob for all the grid voltages on each tube!

> In those days, monitoring each tube's cathode current individually was
> relatively cheap too...sigh.

Ahh, but (courtesy of Fred Sutter), it still is: you can use standard pilot-lamp bulbs as fairly accurate current indicators; just have to pick them for the operating current. Response (brightness vs. current) is a log-type curve, with a lot of slope in the range from middling-yellow to dazzling.

Another way is to buy cheap low-range meters--a local surplus house had a few dozen of ex-CB wattmeter ones, for instance--and shunt 'em to the range needed. It's not as *pretty* as a bank of Weston 301s but it works fine.

> Of course, tuned-link-coupled push-pull stages feeding ladder line don't
> have this problem, hi!

Depends--even in Class C, it's best if the tubes are reasonably well matched. Run 'em down to the linear region and matching becomes more important. However, we often try to match tubes closer than they really need to be. If it works, it works; several folks have offered examples.

> For a plate-modulated stage, I wonder if individually-adjustable screen
> resistors would do it for beam power tubes?

A plate-modulated stage is gonna be Class C, where tube matching is least critical. Cranking screen voltage around is more-or-less just a power-output control for each tube. Varying grid bias allows you to set the operating point of each tube, and is the handiest knob. In a MW BC transmitter using multiple finals, you'd likely find individual grid-bias controls and a single screen-voltage control, if the designer was fussy. Even more likely would be fixed screen volts and a single grid-bias adjustment--but in this service, tubes were likely to be replaced as a group (pair, whatever) with new ones. Tube-to-tube uniformity could be **very** high; often, you didn't have to touch tuning/neutralizing adjustments when changing tubes!

If you are running big, directly-heated tubes, another handy knob in the tube-balancing act is individual filament voltage controls. Run each one down 'til power just begins to drop, then go back up a notch. This, too, shows up most in Class A and least in C, in my experience--remember, in A, the tube is working all the time, while in C, it works real hard for a short part of each cycle, then sits back with a beer the rest of time. ;) (And you thought "cold 807" was just a figure of speech!)

...But in many cases, all this is just a refreeeenment. Jo Emmet Jennings, writing in CQ (and yes, I believe that **is** the vacuum-variable condenser Jennings), had the de-darnedest multiple sweep-tube linear amplifiers, with dozens of 'em and nary a per-tube tweak in sight. The bigger the "statistical universe," the less likely tube balance is to be a problem, assuming there are no real horrors in the lot. 4 and fewer tubes are probably the most demanding cases.

73,
--Bobbi

(Who still remembers tuning up the RCA TT50AH finals: five 10kW tubes in Class A, arranged in a pentagram; sometimes you had to tweak it by the light of a new moon, though we never actually had to inscribe cabalistic signs on the floor.... Maybe we should have!)

Date: Thu, 06 Nov 1997 08:18:31 -0500
From: mdenison@blazenet.net (Morton Denison)
To: boatanchors@theporch.com
Subject: RE: Unsubscribe
Message-ID: <3461C3A7.3348@blazenet.net>

Jerry,

I faxed you my VISA number on 10/30/97 as per your message. Yesterday (11/5/97) I was unsubscribed. What's up?

Date: Thu, 6 Nov 1997 06:20:08 -0600 (CST)
From: Kevin Pease <hamradio@mm1001.theporch.com>
To: To: ;
Subject: Subject: SX-100 Bashing
Message-ID: <Pine.LNX.3.95.971106061153.15699A-100000@mm1001.theporch.com>

>Hey Gang, there is really nothing wrong with the SX-100 Receiver..

Who is bashing. The SX-100 is a great receiver with a stability problem. All problems are solvable. Finding the solution is the hard part. This all strated because I have a receiver that has been striped of its dignity for parts that I am trying to make usefull again. Parts stripping is contagious. This radio was a doaner for a nicer one that was also missing parts. If I stripped another to make this one nice the pattern would continue.

In the process of re-packaging this RX so as not to strip another I would like to address the instability problem. So the discusion began about how others attaked the problem. Colective wisdom is normally better than singular wisdom.

I like the old RX so well that I am willing to expend many hours of labor giveing it a new lease on life and hopefully ending up with something unique and to be proud of.

Kevin Pease
WB0JZG
Mount Juliet, TN.

Date: Thu, 6 Nov 97 13:49:55 UT
From: "Paul Bernhard" <W2TU@classic.msn.com>
To: boatanchors@theporch.com
Subject: Davidson-xfrme use
Message-ID: <UPMAIL18.199711061350410950@classic.msn.com>

Dean Davidson asked about three phase transformer use. If it is a self contained three-phase transformer all the windings are on the same core so they would be interfering with each other and not produce what you desired. Just think of it as not useable in parallel. I had the fun of adapting the old

WRT-2 3 phase transmitter to single cycle use and the redeeming factor was the presence of three separate transformers. In this case they could be used individually. Also, the only place the 3phase was used was in the high-voltage so that greatly simplified matters. Hope this helps.

Paul Bernhard
w2tu@msn.com

Date: Thu, 6 Nov 97 13:55:48 UT
From: "Paul Bernhard" <W2TU@classic.msn.com>
To: boatanchors@theporch.com
Subject: GFI
Message-ID: <UPMAIL18.199711061356330903@classic.msn.com>

If your electrician connected the lighting in the kitchen or bath to your GFI he did you a disservice. The NEC calls for kitchen appliance outlets to be separate from these lights. In the bath your GFI should be for your use at the sink only. If it is connected to the lights it only means that your "electrician" gave you the economy job and put the GFI in your service panel downstairs instead of individual outlet GFI's. He saved a few bucks, made your life inconvenient, and probably charged you top rate. Hire Union!

Also, GFI's at your workbench are good protection, but remember when working

on our beloved boatanchors the the GFI will not protect you on the secondary side of any transformer. It doesn't see that fault and will let you fry as you hang on that tube cap!

Paul Bernhard Sr.
w2tu@msn.com

Date: Thu, 6 Nov 1997 08:16:32 -0600 (CST)
From: Avery Comarow <acomarow@USNEWS.COM>
To: <bdhall@ghg.net>
Cc: boatanchors@theporch.com
Subject: Re: Grandpa's package
Message-ID: <199711061416.IAA04621@sco.theporch.com>

At 10:14 PM 11/5/97 -0500, bdhall@ghg.net wrote:

[snip]
>Well, today I received a package from my Grandpa. Inside the package was
>three books: A 1937 Allied Radio catalog, a 1959 ARRL Handbook, and a 1938
>ARRL Handbook....

Ben, can I adopt your grandfather?<g>

Avery W40GK

Date: Thu, 06 Nov 1997 06:17:29 -0800
From: Dan Arney <kn6di@groupone.net>
To: boatanchors@theporch.com
Subject: FREEBIES - DX-35 - DX-40
Message-ID: <3461D178.591999E9@groupone.net>

Have the above basket cases, some parts missing,cabinets OK,no Manuals,
Could be brought to life with some TLC Hi..
postage only.
Hank KN6DI

Date: Thu, 6 Nov 1997 08:10:48 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>

To: Ho4bart@aol.com
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: My turn
Message-ID: <Pine.ULT.3.96.971106080751.10848A-100000@admin.aurora.edu>

On Thu, 6 Nov 1997 Ho4bart@aol.com wrote:

> the tube dealer told me he had filled a dumpster with
> late-model TV tubes, like the 4AU6 and the 33GY7 and such.
>..... but who pays for a 33GY7 ?? so, it's off to the landfill.

I have a box of "useless" TV tube too. Just haven't got around to seeing what might be worth saving - but at least, if they are octal based, you can use the bases for coil form bases or power cord plugs.

UFO's are real! (It's the Air Force that does not exist)
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Thu, 6 Nov 97 08:34:23 -0600
From: "Joseph W. Pinner" <kc5ijd@sprintmail.com>
To: "Boatanchor 1" <boatanchors@theporch.com>
Subject: "useless" tubes
Message-ID: <199711061425.GAA03744@mailgate22>

I, too, have hundreds of these TV tubes. Like you, I hate to throw them out. But the time is rapidly coming when I will not have a choice due to space limitation.

Anyone have any ideas what to do with them (only a few are octals).

73

Joseph W Pinner
Lafayette, LA
KC5IJD
EMail: kc5ijd@sprintmail.com

Date: Thu, 6 Nov 1997 06:38:10 -0800 (PST)

From: Randy Zelick <h2rz@odin.cc.pdx.edu>
To: Grumps Guide Press <rau@wco.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: GFI'S
Message-ID: <Pine.PTX.3.91.971106062917.6831C-100000@odin.cc.pdx.edu>

'bout GFI's

1. I like them because I live in an old house which is only partially upgraded, wiring-wise. There are lots of 2-wire circuits. This plus kids is less than optimum and the fast fix is to add GFIs.
2. On the other hand, my properly operating R-390A will blow any GFI I plug it into, and it has a grounded plug. Thus fitting your shack with GFI service can lead to problems. One solution, of course, is to disconnect the capacitor filter on the 390 power input. It could be replaced with a modern power entry module in such a way as to allow the 390 to be rendered back to original condition should this be desired. But doing the mod this way would be tricky and time-consuming.

If you have a 2-wire house, perhaps an intermediate solution is to drive a separate ground rod near the shack for AC (not RF) grounding and plumb-in 3-wire outlets for this service only. If this rod is far from the service entry ground, and the soil has poor conductivity, perhaps this solution becomes less desirable. Any professional electrician comment?

Later,

=Randy=

R. Zelick
Dept. Biology
Portland State University
P.O. Box 751
Portland, OR 97207
503-725-3086 (voice), 503-725-3888 (fax)
email: h2rz@odin.cc.pdx.edu
web: <http://odin.cc.pdx.edu/~h2rz/>

Date: Thu, 6 Nov 1997 09:44:34 -0500
From: John Shriver <jas@shiva.com>
To: boatanchors@sco.theporch.com
Subject: Tektronix matched 7586 Nuvisitors
Message-ID: <199711061444.JAA16899@brill.shiva.com>

I'm looking for a Tektronix matched pair of 7586 Nuvistors for my Tektronix 3A3 plugin. The Tektronix part number is 157-0110-00.

Date: Thu, 06 Nov 1997 15:52:03 +0100
From: Hannelore Breuer <hbreuer@metronet.de>
To: baswaplist@foothill.net
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Wanted: Hallicrafters Knob
Message-ID: <3461D993.30A4@metronet.de>

I got a Hallicrafters SR-150 and 3 knobs are not original.
I need the following:
2 knobs, almost round (9 edges) black with aluminium inlet 1" dia
1 knob, almost round (8 edges) black with aluminium inlet 3/4" dia

These knobs are common on the SR-series transceivers, SX-117,
SX-122 and HT-44.
I also need a replacement for the burned PI-filter coil.

Does anyone have a junker or parts for sale?

Thanks and best 73

Heinz - KF6FNC

Date: Thu, 06 Nov 1997 07:08:15 -0800
From: Dan Arney <kn6di@groupone.net>
To: boatanchors@theporch.com
Subject: THE FREEBIES WENT BEFORE THE 2ND CUP OF BREW
Message-ID: <3461DD5C.1E365607@groupone.net>

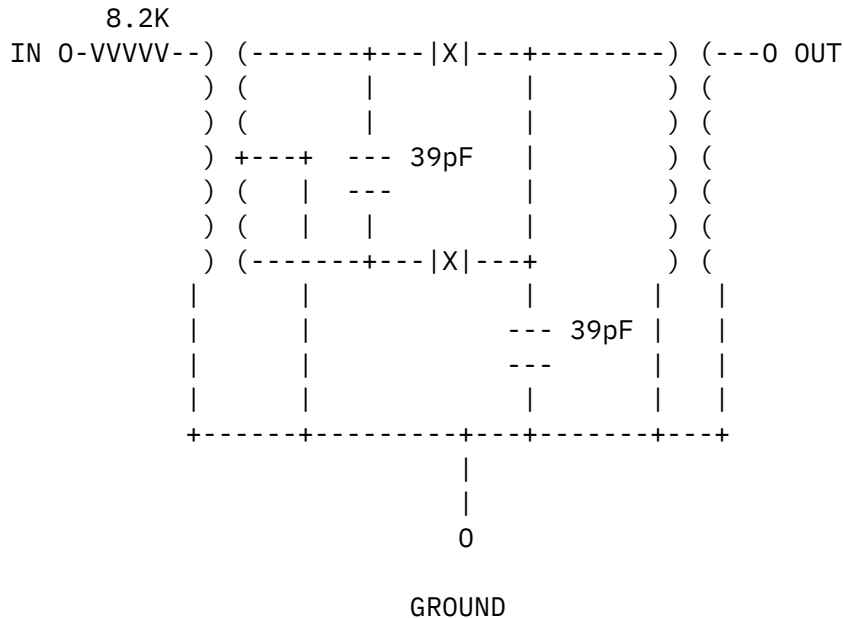
Gone ByBy
Hank KN6DI

Date: Thu, 6 Nov 1997 10:44:57 -0500
From: John Shriver <jas@shiva.com>
To: boatanchors@theporch.com
Subject: Collins crystal filter

Message-ID: <199711061544.KAA16930@brill.shiva.com>

I have this batch of Collins crystal filters. They are crystal filter FR4QX22YY, part number 526-7756-001, SM-B-527035. I've asked before on the list, nobody seems to have this part in a Collins database.

One of them was cut open by the previous owners. The schematic is like this:



I'm not absolutely sure I've got it accurate, but it seems to make sense.

Not shown is the ground pin on each crystal (which are |X| in schematic), which is in the center. Each crystal is in a HC-6U sized case.

Anyone have any idea what sort of circuit this is?

Date: Thu, 06 Nov 1997 10:54:57 -0500
From: Jerry Proc <jproc@idirect.com>
To: boatanchors@theporch.com
Subject: Donle Tube ?
Message-ID: <3461E851.5945@idirect.com>

Dear BA'ers,

In the Nov 97 issue of the AWA newsletter there is mention of a Donle tube with the plate outside of the envelope. I've never heard of this concept before . What's it all about?

--

Regards,
Jerry Proc VE3FAB
jproc@bellglobal.com
HMCS HAIDA Naval Museum, Toronto Ont.

Date: Thu, 6 Nov 1997 10:11:19 -0800
From: Brian.Harris@sv.sc.philips.com (Brian Harris)
To: boatanchors@theporch.com
Subject: RBU-1 Panadapter
Message-ID: <00069C3C.1914@svlima.sv.sc.philips.com>

I am looking for a manual (copy) or schematic for an RBU-1 Panadapter by the Panoramic Radio Corporation. Name your price. Thanks.

Brian Harris WA5UEK

Date: Thu, 6 Nov 1997 11:23:51 -0500
From: "Ornitz, Barry L" <ornitz@eastman.com>
To: "'Larry Johnson'" <k5yf@wt.net>,
 "'boatanchors@sco.theporch.com'"
Cc: "'ornitz@tricon.net'" <ornitz@tricon.net>
Subject: RE: Cleaning Old Rigs (Again!)
Message-ID: <c=US%a=_%p=Eastman%l=NTD150-971106162351Z-20415@ntd150.kpt.emn.com>

Larry and group,

I guess I am the semi-official "boatanchor chemist" for the list. Actually I am a chemical engineer and electrical engineer. I design and build custom instrumentation for Eastman Chemical Company (formerly part of Kodak). I started with the boatanchor group by giving safety advice on solvents and cleaning methods, and this role has enlarged to the point that many of the chemical questions go to me. I don't always have the time to write as much as I would like - I tend to be overly verbose anyway - but I try to jump in when there is a potential danger (like using brake fluid as paint remover) or to warn about such things as silicone oils not being compatible with repainting. Working in R&D, I have access to a good technical library and lots of chemical safety information. If you or others on the list have a chemically-related question that relates to boatanchors, please post it and I will try to

answer. But PLEASE keep it on track with the charter of the list.
Email me directly if your question fails this test.
Jack (bless him) runs a tight ship!

I deliberately did not refer to you by name in my post because I knew your intentions were good. In fact, I doubt if you could find a better group of hams and boatanchor fans any place than this list. We all appreciate sharing of information. I am like everyone else though - I like the easy way to clean things too. The only problem is that many of the folks here really cherish their equipment and intend on using it for years into the future. Thus, future repainting is almost a certainty. At least if you USE your boatanchors, anyway. And they really should be used, not put away on the shelf.

73, Barry L. Ornitz WA4VZQ ornitz@tricon.net

>-----Original Message-----

>From: Larry Johnson [SMTP:k5yf@wt.net]

>Barry, well....I confess, I was the one that suggested Son-of-a-Gun. I

>wasn't aware of the issues you mentioned, and appreciate the extra

>information you provided about cleaning and not being able to paint it.

>

Date: Thu, 6 Nov 1997 11:30:40 -0800

From: "Mike B. Feher" <n4fs@monmouth.com>

To: <jproc@idirect.com>, "Old Tube Radios" <boatanchors@theporch.com>

Subject: Re: Donle Tube ?

Message-ID: <199711061626.LAA15824@shell.monmouth.com>

The Donle tube and many others tried to get around early patent rights by modifying the classical tube structure of the era. Welsh, Weagant, and, Moorhead also come to mind. I have these tubes in my collection and they are very interesting. Sometimes the external element consisted of nothing more than a few turns of wire around the tube as in the case of the Welsh Peanut tube. In some cases they were simple diodes so the external element acted as the plate and in others they were triodes and they called the external element the control element. In either case they were very poor performers as can be imagined and not many of these tubes were made. Of course even less survived so they are real scarce today and prized by collectors. 73s - Mike

Mike B. Feher, N4FS

89 Arnold Blvd.

Howell, NJ, 07731

732-901-9193

Date: 06 Nov 1997 10:32:35 -0600
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
To: boatanchors@sco.theporch.com
Subject: Comet Pro-gress (so to speak...)
Message-ID: <1997Nov06.103236-0600@spike.vuse.vanderbilt.edu>

The caps are all replaced and the Comet is coming along nicely. Starting to have some sensitivity and sounding OK, if not great. One question I had regarded a circuit practice that I can't quite figger out. Both the plate and screen of the IF amplifiers (58's) are bypassed to the cathode, not ground. The cathode is then bypassed to ground. Since the caps are all 0.1 uF, this results in an effective bypass for the plate and screen of 0.05 uF. How come, o wise ones?

73 A. B. Bonds

Date: Thu, 6 Nov 1997 11:35:41 -0500
From: "Ornitz, Barry L" <ornitz@eastman.com>
To: "'Eric A. Jones'" <eaj@hiwaay.net>,
 "'boatanchors@sco.theporch.com'"
Cc: "'ornitz@tricon.net'" <ornitz@tricon.net>
Subject: RE: Cleaning Old Rigs (Again!)
Message-ID: <c=US%a=_%p=Eastman%l=NTD150-971106163541Z-20419@ntd150.kpt.emn.com>

Eric Jones, N4TGC, who is a gunsmith pointed out to me that cartridge cleaner does NOT contain ammonia like Brasso. I had forgotten about hydrogen embrittlement weakening the brass in my earlier post. The issue about the material being abrasive still applies, however. Polishes are all abrasives (but to different extents), so you do need to watch where you use them.

In general, a little dilute ammonia may be added to warm soapy water for some extra strength in cleaning boatanchors. Dave Knepper, W3BJZ, has told me about his successful use of ammonia in cleaning Collins gear. Strong ammonia, however, is rather caustic for most boatanchor cleaning operations.

My thanks go to both gentlemen.

73, Barry L. Ornitz WA4VZQ ornitz@tricon.net

Date: Thu, 06 Nov 1997 11:40:09 -0500
From: Roger Faulstick <agemi@flips.net>
To: boatanchors@theporch.com
Subject: The RS 21-543 DSP
Message-ID: <3.0.1.32.19971106114009.006e290c@mailhost.flips.net>

Yesterday, I was driving through a small town here in Florida, I walked in to a Franchise Radio Shack dealer (not a company owned store) They had a 21-543 DSP in stock.

They sold it to me for \$ 39.95. I have the following observations.

- 1) It works very good on hetrodynes in the 40 M phone.
- 2) It works very good on CW, however it appears that my switched capacitor filter works even better.
- 3) The little tiny knobs close together bug me.
- 4) Regarding noise, it does help.
- 4) Is it worth the money, you bet.

I spend a lot of time chasing DX on both 40 and 80, CW & phone. If you can't read them you can't work them.

Roger KD4AS

Date: 6 Nov 97 09:17:00 -0800
From: BRICKEY_PETER@Tandem.COM
To: boatanchors@theporch.com
Subject: Geloso mdl G209
Message-ID: <199711060918.AA23865@POST.TANDEM.COM>

Hi,

I recently picked up a Geloso model G-209 receiver and now need a manual for it. I will be happy to pay associated copying costs, etc.

Also, I have sent a query to John of phoenix crystals (CW crystals?) and have not received a reply. Does anyone know if he is still in

business?

73's Peter

Date: Thu, 6 Nov 1997 09:17:17 -0800
From: anders@autopsy.csd.sgi.com (Greg Anders)
To: boatanchors@theporch.com
Subject: Need Schematic for T-339
Message-ID: <9711060917.ZM20728@autopsy.csd.sgi.com>

Anybody out in BA land have a schematic for a T-339 Antenna Tuning Unit willing to make a copy for copying cost, postage and inconvenience charges?
This tuner is for the T-368 transmitter, I believe. Beautiful tuner but its not obvious to me what kind of circuit it uses or how to tune it. Thanks in advance....

--

Greg Anders

"If at first you don't succeed.....then skydiving is not for you"

anders@autopsy.sgi.com
KG6YV

Date: Thu, 6 Nov 1997 09:51:13 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: BRICKEY_PETER@Tandem.COM
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Geloso mdl G209
Message-ID: <Pine.BSF.3.95.971106095045.27851K-100000@piobaire.mines.uidaho.edu>

> Also, I have sent a query to John of phoenix crystals (CW crystals?)
> and have not received a reply. Does anyone know if he is still in
> business?

Yes. He is busy making crystals. He is now known as CW Crystals.

Ken

Date: Thu, 6 Nov 1997 13:02:09 -0500
From: "Rhett T. George" <rtg@ee.duke.edu>
To: boatanchors@theporch.com
Subject: Bypass caps
Message-ID: <199711061802.NAA00518@washington.ee.duke.edu>

- Greetings -

A. B. Bonds just asked a fine question regarding bypassing vacuum tube IF amplifiers. The impedance of the 0.05 uF cap at 455 kHz is mighty small and Z of the 0.1 uF cap is half that much. The effects of one value over the other should be dealt with only after several "cold 807's." The more important item is that the tube is a generator and the IF transformer is the load. The signal once generated should not escape the load. Therefore the bypass cap from B+ side of transformer input winding to cathode constrains the signal to stay in the loop. Since screen to cathode variations induced by the screen current do not help the gain, the screen bypass cap returned to the cathode does a better job. I think this is an accurate observation on what is not an obvious wiring choice.

73 Rhett - KE4HIH

Date: Wed, 05 Nov 1997 23:41:14 -0700
From: Kevin Gallagher <wire2liv@gomontana.com>
To: boatanchors@sco.theporch.com
Subject: Big tube
Message-ID: <3461668A.74B6@gomontana.com>

Gentlemen, I picked up a big tube the other day and am wondering if anyone can help me out identifying it. It is 14.5 in. tall, has a 2 in. tall brass top and a large brass base with 2- one inch long pins, 3/8 in. in dia. on either side of a 1 in by 5/8 blade. The only markings on this tube is a label from National Radio Tube Co. and #475 hand scratched on

the base. Any Idea? Thanks, Kevin

Date: Thu, 06 Nov 1997 11:56:56 -0800
From: Hal Waite <halwaite@sprintmail.com>
To: Boatanchors <boatanchors@theporch.com>
Subject: WTB at November 15th. Hamfest at Pomona: 75A4
Message-ID: <34622108.4D95@sprintmail.com>

I am looking for a Collins 75A4 in near-mint condition with the dial reduction knob. Only the 3.1kc filter is needed. Cash deal.

Will be at the Pomona Hamfest in a blue Aerostar with Nevada plates. Let me know by email, preferably giving your phone number.

73 de Hal K3AB/7 Las Vegas

Date: Thu, 6 Nov 1997 13:09:44 -0700 (MST)
From: BOB RAGAIN <RAGAIN@hubvx6.sedalia.wireline.slbb.com>
To: boatanchors@theporch.com
Cc: RAGAIN@hubvx6.sedalia.wireline.slbb.com
Subject: Help! TS-505 cover available
Message-ID: <971106130944.3ea3371f@hubvx6.sedalia.wireline.slbb.com>

Hello BA'ers and attention TS-505D/U owners,

When I left the house yesterday morning with a funny looking object in my hand, my wife glanced at it and said:

her: "What's that?"

me: "It's a cover for a TS-505" (as if she knows what a TS-505 is.
Number one boatanchor collector rule: always answer vaguely.)

her: "Oh, where'd that come from? Do you have one?"

me: "No, I bought it at Crump's yesterday" (Oops, missed BA Rule number two: Lie if it keeps you from looking dumb.)

her: (pause) "If you don't have one, why'd you buy it?"
(Lack of logic is not one of her faults. BA rule number 3: boatanchor acquisitions are not controlled by logic)

me: "Well, lots of guys on the BA list probably need this for their TS-505. Equipment covers always seem to disappear. There is a black hole that

eats equipment covers. I bet I'll get half a dozen requests for it."

Her: "you guys.....(and head shaking)."

Thank goodness she didn't take the bet!

Come on guys, bail me out. Surely someone needs a cover for a TS-505, free, for postage!!! (or I'll have to resort to rule number 2.)

Bob

Bob Ragain WB4ETT Littleton, CO

Date: Thu, 6 Nov 1997 15:26:42 -0500 (EST)
From: MNHopkins@aol.com
To: boatanchors@theporch.com
Subject: SX-100 as VW Super Beatle
Message-ID: <971106152640_42325512@mrin41.mail.aol.com>

Hallicrafters built many, many receivers on the same general platform and theory -- the line goes back two the SRs thru the venerable S-40. A crystal filter here, a second IF there, it would take a master's thesis or Chuck Dachis to trace it all out.

As I read Chuck's book, the SX-100, at '56 to '61 is the last of the breed, like the Super Beatle. I have never owned one as I wear glasses and the glare from all the trim would be troublesome. Have you ever noticed how as a line progresses, it tends to elaboration for its own sake? I would put the excellent NC-300 and the junky NC-303 as another example of the trend.

I would be unsurprized to learn an SX 100 drifts. By today's standards, most everything does. I put a Globe Scout on 30M in '84 with a 5mc xtal and was told by a hollow stater with a digital obsession that I was drifting -- my vintage Hufco counter could not confirm that. But the SX-100, for its foibles, has one great feature -- a 50.5 kc last IF. It is behind a 1650 kc first IF which is low by theory, but probably high enough to keep the images away up thru maybe 30M. But the 50.5 is the stuff BA reputations are made from. It is simply the way to go if one wants good selectivity useful on CW and AM without so much sideband cutting and steep side cutoff that it makes everyone sound like a YL. And when you throw a 50 kc IF into regeneration you get more selectivity than anyone can use.

So sure, I'd love to have an SX-100. I'd treat it like a mental patient --

keep it in a dark room and not demand too much of it.

73 de ab51, michael in dallas, student of Tecraft and International Crystal
(ICM) ham products and mementoes of Six Meter's Golden Age: 1957-58
MNHopkins@AOL.com

Date: Thu, 06 Nov 1997 15:36:28 -0500
From: Jerry Proc <jproc@idirect.com>
To: n4fs@monmouth.com
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Donle Tube ?
Message-ID: <34622A4C.7088@idirect.com>

Mike B. Feher wrote:

>
>Sometimes the external element consisted of nothing
> more than a few turns of wire around the tube

Hi Mike,

Thank you for your response but the key element that I don't understand
is how the electrons get through the glass envelope of the tube in order
to make it to the plate.
Also, there is air between the glass and plate. I just don't understand
how ANY conduction would be possible.

--

Regards,
Jerry Proc VE3FAB
jproc@bellglobal.com
HMCS HAIDA Naval Museum, Toronto Ont.

End of BOATANCHORS Digest 1762
